

# NextNav, LLC

CENTERVILLE  
CA-SFO-0068  
5275 CENTRAL AVENUE  
FREMONT, CALIFORNIA 94536

EXHIBIT "A"

## VICINITY MAP



## DRIVING DIRECTIONS

- FROM THE COMMLABS OFFICE AT: 484 OAKMEAD PARKWAY, SUNNYVALE CA 94085
- HEAD NORTH ON OAKMEAD PARKWAY TOWARD LAKEWAY DR (0.6 MILES)
  - TURN RIGHT ONTO COUNTY ROUTE G2/LAWRENCE EXPRESSWAY (0.3 MILES)
  - TAKE THE EXIT ONTO CA-237 E TOWARD MILPITAS (4.4 MILES)
  - TAKE EXIT 9C ON THE LEFT FOR I-880 NORTH TOWARD OAKLAND (210 FEET)
  - KEEP RIGHT AT THE FORK AND MERGE ONTO I-880 (8.0 MILES)
  - TAKE EXIT 16 FOR STEVENSON BLVD (0.3 MILES)
  - TURN RIGHT ONTO STEVENSON BLVD (1.1 MILES)
  - TURN LEFT ONTO DAVIS STREET (0.2 MILES)
  - TURN RIGHT ONTO BIDWELL DR (0.2 MILES) / TURN LEFT ONTO TRINITY WAY (0.2 MILES)
  - TURN RIGHT ONTO PARK CENTER LANE (203 FEET)
- FOR SITE ACCESS CHECK-IN WITH BUILDING ENGINEERING



## CONSULTANT TEAM

**CLIENTS REPRESENTATIVE:**  
NextNav, LLC  
7926 JONES BRANCH DRIVE  
SUITE: 500  
MCLEAN, VIRGINIA 22102  
PHONE: (408) 206-4575  
CONTACT: ARUN NARAYAN

**LAND USE PLANNING:**  
NEXIUS  
484 OAKMEAD PARKWAY  
SUNNYVALE, CALIFORNIA 94085  
PHONE: (415) 722-1183  
CONTACT: JOSEPH CAMICIA

**ARCHITECT:**  
JEFFREY ROME & ASSOCIATES  
1 SAN JOAQUIN PLAZA  
SUITE: 250  
NEWPORT BEACH, CALIFORNIA 92660  
PHONE: (949) 760-3929  
FAX: (949) 760-3931  
CONTACT: JEFF ROME

**SITE ACQUISITION:**  
NEXIUS  
484 OAKMEAD PARKWAY  
SUNNYVALE, CALIFORNIA 94085  
PHONE: (650) 315-7633  
CONTACT: STEVE CARBULLIDO

## PROJECT SUMMARY

**APPLICANT:** NextNav, LLC  
7926 JONES BRANCH DRIVE, SUITE 500  
MCLEAN, VIRGINIA 22102  
CONTACT: ARUN NARAYAN  
(408) 206-4575

**OWNER:** AMERICAN TOWER CORPORATION  
10 PRESIDENTIAL WAY  
WOBURN, MASSACHUSETTS 01801  
CONTACT: JOE TAYLOR  
(916) 539-0584

**PROJECT DESCRIPTION/SCOPE:**  
THE PROJECT INVOLVES THE INSTALLATION OF:

- (1) (N) OMNI ANTENNA MOUNTED ON (E) MONOPOLE.
- (1) (N) GPS MOUNTED ON (N) H-FRAME.
- (1) (N) EQUIPMENT CABINET MOUNTED ON (N) H-FRAME.
- (1) (N) 7/8" COAXIAL TRANSMISSION LINE FROM EQUIPMENT CABINET TO ANTENNA.
- POWER SERVICE TO BE PROVIDED FROM EXISTING SOURCES.

**OTHER ON-SITE TELECOM FACILITIES:** YES

**PROJECT ADDRESS:** 5275 CENTRAL AVENUE  
FREMONT, CALIFORNIA 94536

**ASSESSORS PARCEL NUMBER:** 501-0350-009-04

**LATITUDE:** N 37° 32' 28.39"

**LONGITUDE:** W -122° 01' 04.70"

**EXISTING ZONING:** I-L (LIGHT INDUSTRIAL)

**SITE TYPE:** GROUND

**PROPOSED PROJECT AREA:** 16 S.F.

**PROPOSED TYPE OF CONSTRUCTION:** TYPE V-B

**EXISTING TYPE OF CONSTRUCTION:** TYPE V-B

**PROPOSED OCCUPANCY:** U

**EXISTING OCCUPANCY:** U

**JURISDICTION:** CITY OF FREMONT

## SHEET INDEX

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## APPLICABLE CODES

ALL WORK SHALL COMPLY WITH THE FOLLOWING APPLICABLE CODES:

2010 CALIFORNIA BUILDING CODE AND LOCAL AMENDMENTS  
2010 CALIFORNIA MECHANICAL CODE AND LOCAL AMENDMENTS  
2010 CALIFORNIA ELECTRIC CODE AND LOCAL AMENDMENTS  
2010 CALIFORNIA PLUMBING CODE AND LOCAL AMENDMENTS  
2010 CALIFORNIA FIRE CODE AND LOCAL AMENDMENTS  
2010 CALIFORNIA ENERGY CODE  
2010 CALIFORNIA REFERENCED STANDARD CODE

IN THE EVENT OF CONFLICT, THE MOST RESTRICTIVE CODE SHALL PREVAIL

## ACCESSIBILITY DISCLAIMER

THIS PROJECT IS AN UNOCCUPIED WIRELESS PCS TELECOMMUNICATIONS FACILITY AND, IS EXEMPT FROM DISABLED ACCESS REQUIREMENTS.

## SCALE

THE DRAWING SCALES SHOWN IN THIS SET REPRESENT THE CORRECT SCALE ONLY WHEN THESE DRAWINGS ARE PRINTED IN 24" X 36" FORMAT. IF THIS DRAWING SET IS PRINTED 11X17 THESE DRAWINGS ARE NOT TO SCALE.

**JRA**

Jeffrey Rome & Associates, Inc.

Architecture & Telecommunications  
1 San Joaquin Plaza, Suite 250  
Newport Beach, California 92660  
Phone: (949) 760-3929  
Fax: (949) 760-3931

## PROPRIETARY INFORMATION

THE INFORMATION CONTAINED IN THIS SET OF CONSTRUCTION DOCUMENTS IS PROPRIETARY BY NATURE. ANY USE OR DISSEMINATION OTHER THAN THAT WHICH IS SPECIFICALLY AUTHORIZED BY JRA IS STRICTLY PROHIBITED.



NextNav, LLC

7926 JONES BRANCH DRIVE, SUITE 500  
MCLEAN, VIRGINIA 22102

## APPROVALS

R.F. \_\_\_\_\_

ZONING \_\_\_\_\_

CONSTRUCTION \_\_\_\_\_

SITE ACQUISITION \_\_\_\_\_

OWNER APPROVAL \_\_\_\_\_

## PROJECT NAME

CENTERVILLE

## PROJECT NUMBER

CA-SFO-0068

5275 CENTRAL AVENUE  
FREMONT, CALIFORNIA 94536

## DRAWING DATES

09/28/11 90% PRELIM CD'S (P1-B1)  
10/07/11 100% FINAL CD'S (P1-B2)  
10/14/11 CLIENT COMMENTS (P1-B3)  
01/27/12 CLIENT COMMENTS (P1-B4)

## SHEET TITLE

TITLE SHEET

T-1



GENERAL SPECIFICATIONS

1. THE LATEST EDITION OF THE AMERICAN INSTITUTE OF ARCHITECTS DOCUMENT A201 "GENERAL CONDITIONS OF THE CONTRACT FOR CONSTRUCTION" ARE INCLUDED IN THESE SPECIFICATIONS AS IF COMPLETELY REPRODUCED HEREIN.
2. THIS FACILITY IS AN UNOCCUPIED PCS TELECOMMUNICATIONS SITE AND IS EXEMPT FROM DISABLED ACCESS REQUIREMENTS.
3. PRIOR TO THE SUBMISSION OF BIDS, THE CONTRACTORS PARTICIPATING SHALL VISIT THE JOB SITE AND FAMILIARIZE THEMSELVES WITH ALL FIELD CONDITIONS AFFECTING THE PROPOSED PROJECT INCLUDING DEMOLITION, ELECTRICAL, MECHANICAL AND STRUCTURAL INSTALLATIONS, AS WELL AS WITH THE CONSTRUCTION AND CONTRACT DOCUMENTS AND SHALL CONFIRM THAT THE PROJECT CAN BE ACCOMPLISHED AS SHOWN PRIOR TO PROCEEDING WITH CONSTRUCTION. SHOULD ANY ERRORS, OMISSION, OR DISCREPANCIES BE FOUND, THE GENERAL CONTRACTOR SHALL IMMEDIATELY NOTIFY NEXTNAV CONSTRUCTION MANAGER AND THE ARCHITECT IN WRITING. IN THE EVENT OF DISCREPANCIES THE CONTRACTOR SHALL INCLUDE THE MORE COSTLY OR EXTENSIVE WORK IN THE BID, UNLESS SPECIFICALLY DIRECTED OTHERWISE. IF A DISCREPANCY EXISTS AND THE PROJECT MANAGER AND ARCHITECT ARE NOT NOTIFIED, THE GENERAL CONTRACTOR SHALL BE HELD RESPONSIBLE FOR ALL COSTS INCURRED TO REPAIR OR CORRECT ALL PROBLEMS THAT RESULT.
4. DRAWINGS SHALL NOT BE SCALED. THESE DRAWINGS ARE INTENDED TO BE DIAGRAMMATIC ONLY. FIGURED DIMENSIONS HAVE PRECEDENCE OVER DRAWING SCALE AND DETAIL DRAWINGS HAVE PRECEDENCE OVER SMALL SCALE DRAWINGS. CONTRACTOR SHALL CHECK ACCURACY OF ALL DIMENSIONS IN THE FIELD. UNLESS SPECIFICALLY NOTED, DO NOT FABRICATE ANY MATERIALS, OR BEGIN ANY CONSTRUCTION UNTIL THE ACCURACY OF DRAWING DIMENSIONS HAS BEEN VERIFIED AGAINST ACTUAL FIELD DIMENSIONS.
5. THE CONTRACTOR SHALL INCLUDE IN HIS OR HER BID ALL MATERIALS, EQUIPMENT, APPURTENANCES AND LABOR NECESSARY TO COMPLETE THE WORK AS INDICATED OR IMPLIED BY THESE DRAWINGS.
6. CONTRACTOR SHALL NOTIFY THE NEXTNAV CONSTRUCTION MANAGER, THE PROPERTY OWNER AND THE ARCHITECT IF ANY DETAILS ARE CONSIDERED IMPRACTICAL, UNSUITABLE, UNSAFE, NOT WATERPROOF, OR NOT WITHIN CUSTOMARY TRADE PRACTICE. IF WORK IS PERFORMED, IT WILL BE ASSUMED THAT THERE IS NO OBJECTION TO ANY DETAIL. DETAILS ARE INTENDED TO SHOW THE END RESULT OF THE DESIGN. MINOR MODIFICATIONS MAY BE REQUIRED TO SUIT JOB CONDITIONS, AND SHALL BE INCLUDED AS PART OF THE WORK.
7. EXISTING ELEVATIONS AND LOCATIONS TO BE JOINED SHALL BE VERIFIED BY THE CONTRACTOR BEFORE CONSTRUCTION. IF THEY OFFER FROM THOSE SHOWN ON THE PLANS, THE CONTRACTOR SHALL NOTIFY THE AT&T WIRELESS CONSTRUCTION MANAGER AND THE ARCHITECT SO THAT MODIFICATIONS CAN BE MADE BEFORE PROCEEDING WITH THE WORK.
8. THE CONTRACTOR SHALL VERIFY ALL TELEPHONE & RADIO EQUIPMENT LAYOUTS, SPECIFICATIONS, PERFORMANCE, INSTALLATION AND FINAL LOCATIONS WITH NEXTNAV CONSTRUCTION MANAGER PRIOR TO BEGINNING WORK. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING HIS WORK WITH ERICSSON RADIO SYSTEMS.
9. ALL SYMBOLS & ABBREVIATIONS USED ON THE DRAWINGS ARE CONSIDERED CONSTRUCTION STANDARDS. IF THE CONTRACTOR HAS QUESTIONS REGARDING THEIR EXACT MEANING, THE NEXTNAV CONSTRUCTION MANAGER AND THE ARCHITECT SHALL BE NOTIFIED FOR CLARIFICATION BEFORE THE CONTRACTOR PROCEEDS WITH THE WORK.
10. THE CONTRACTOR SHALL OBTAIN AND PAY FOR PERMITS, LICENSES AND INSPECTIONS NECESSARY FOR PERFORMANCE OF THE WORK AND INCLUDE THOSE IN THE COST OF THE WORK TO NEXTNAV.
11. THE CONTRACTOR SHALL PROVIDE CONTINUOUS SUPERVISION WHILE ANY SUBCONTRACTORS OR WORKMEN ARE IN THE SITE AND SHALL SUPERVISE AND DIRECT ALL WORK, USING HIS BEST SKILL AND ATTENTION. HE SHALL BE SOLELY RESPONSIBLE FOR ALL CONSTRUCTION MEANS, METHODS, TECHNIQUES, PROCEDURES AND SEQUENCES AND FOR COORDINATING ALL PORTIONS OF THE WORK UNDER THE CONTRACT.
12. WORKMANSHIP THROUGHOUT SHALL BE OF THE BEST QUALITY OF THE TRADE INVOLVED, AND SHALL MEET OR EXCEED THE FOLLOWING MINIMUM REFERENCE STANDARDS FOR QUALITY AND PROFESSIONAL CONSTRUCTION PRACTICE:
- |        |                                                                                                                                   |
|--------|-----------------------------------------------------------------------------------------------------------------------------------|
| NRCA   | NATIONAL ROOFING CONTRACTORS ASSOCIATION<br>O'HARE INTERNATIONAL CENTER<br>10255 W. HIGGINS ROAD, SUITE 600<br>ROSEMONT, IL 60018 |
| SMAcNA | SHEET METAL AND AIR CONDITIONING CONTRACTORS<br>NATIONAL ASSOCIATION<br>4201 LAFAYETTE CENTER DRIVE<br>CHATILLY, VA 22021-1209    |
| ITLP   | INTERNATIONAL INSTITUTE FOR LATH AND PLASTER<br>820 TRANSFER ROAD<br>ST. PAUL, MN 55114-1408                                      |
13. INSTALL ALL EQUIPMENT AND MATERIALS PER THE LATEST EDITION OF THE MANUFACTURER'S INSTALLATION SPECIFICATIONS UNLESS SPECIFICALLY OTHERWISE INDICATED, OR WHERE LOCAL CODES OR REGULATIONS TAKE PRECEDENCE.
14. THE CONTRACTOR SHALL VERIFY, COORDINATE, AND PROVIDE ALL NECESSARY BLOCKING, BACKING, FRAMING, HANGARS OR OTHER SUPPORTS FOR ALL ITEMS REQUIRING THE SAME.
15. THE CONTRACTOR AND ALL SUBCONTRACTORS SHALL GIVE ALL NOTICES AND SHALL COMPLY WITH ALL APPLICABLE LOCAL CODES, REGULATIONS, LAWS AND ORDINANCES AS WELL AS STATE DEPARTMENT OF INDUSTRIAL REGULATIONS AND DIVISION OF INDUSTRIAL SAFETY (OSHA) REQUIREMENTS.
16. THE CONTRACTOR SHALL PROTECT THE PROPERTY OWNERS, AND AT&T WIRELESS PROPERTY FROM DAMAGE WHICH MAY OCCUR DURING CONSTRUCTION. ANY DAMAGE TO NEW AND EXISTING FINISHES, CONSTRUCTION, STRUCTURE, LANDSCAPING, CURBS, STAIRS, OR EQUIPMENT, ETC. SHALL BE IMMEDIATELY REPAIRED OR REPLACED TO THE SATISFACTION OF NEXTNAV AND THE PROPERTY OWNER'S REPRESENTATIVE, AT THE EXPENSE OF THE CONTRACTOR.
17. THE CONTRACTOR SHALL BE RESPONSIBLE FOR, AND SHALL REPLACE OR REMEY, ANY FAULTY, IMPROPER, OR INFERIOR MATERIALS OR WORKMANSHIP OR ANY DAMAGE WHICH SHALL APPEAR WITHIN ONE YEAR AFTER THE COMPLETION AND ACCEPTANCE OF THE WORK BY AT&T WIRELESS UNDER THIS CONTRACT.
18. IT SHALL BE THE RESPONSIBILITY OF THE GENERAL CONTRACTOR TO LOCATE ALL EXISTING UTILITIES, OR CONTACT AN OUTSIDE AGENCY TO LOCATE ALL EXISTING UTILITIES, WHETHER SHOWN HEREIN OR NOT, AND TO PROTECT THEM FROM DAMAGE. THE CONTRACTOR SHALL BEAR ALL EXPENSES FOR THE REPAIR OR REPLACEMENT OF UTILITIES OR OTHER PROPERTY DAMAGED IN CONJUNCTION WITH THE EXECUTION OF WORK.
19. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE COMPLETE SECURITY OF THE PROJECT SITE WHILE THE JOB IS IN PROGRESS AND UNTIL THE JOB IS COMPLETED AND ACCEPTED BY NEXTNAV.
20. THE CONTRACTOR SHALL PROVIDE TEMPORARY WATER, POWER AND TOILET FACILITIES AS REQUIRED BY THE PROPERTY OWNER, NEXTNAV, AND THE CITY OR GOVERNING AGENCY.
21. THE GENERAL CONTRACTOR IS RESPONSIBLE FOR REDLINING THE CONSTRUCTION DOCUMENTS TO ILLUSTRATE THE AS-BUILT CONDITION OF THE SITE. THIS SHALL BE DONE AFTER THE SITE HAS BEEN AWARDED FINAL INSPECTION BY THE RESPONSIBLE BUILDING AGENCY. ONE SET OF REDLINED DRAWINGS SHALL BE PROVIDED TO THE NEXTNAV CONSTRUCTION MANAGER.
22. THE LATEST EDITION OF ALL PERMITTED AND APPROVED PLANS PERTAINING TO THIS PROJECT SHALL BE KEPT IN A PLAN BOX AND SHALL NOT BE USED BY WORKERS. ALL CONSTRUCTION SETS SHALL REFLECT THE SAME INFORMATION. THE CONTRACTOR SHALL ALSO MAINTAIN IN GOOD CONDITION, ONE COMPLETE SET OF PLANS WITH ALL REVISIONS, ADDENDA AND CHANGE ORDERS ON THE PREMISES AT ALL TIMES. THESE ARE TO BE UNDER THE CARE OF THE JOB SUPERINTENDENT.
23. THE CONTRACTOR SHALL REMOVE ALL RUBBISH AND WASTE MATERIALS ON A DAILY BASIS, EXCEPT FOR THAT SPECIFIED AS REMAINING THE PROPERTY OF THE BUILDING OR PROPERTY OWNER AND SHALL EXERCISE STRICT CONTROL OVER JOB CLEANING THROUGHOUT CONSTRUCTION, INCLUDING FINAL CLEANUP UPON COMPLETION OF WORK. ALL AREAS ARE TO BE LEFT IN A BROOM CLEAN CONDITION AT THE END OF EACH DAY AND VACUUM CLEAN CONDITION, FREE FROM PAINT SPOTS, DUST OR SMUDGES OF ANY NATURE AT COMPLETION OF WORK.
24. THE GENERAL CONTRACTOR MUST PERFORM WORK DURING PROPERTY OWNER'S PREFERRED HOURS TO AVOID DISRUPTION OF NORMAL ACTIVITY.
25. ALL EXPOSED METAL SHALL BE HOT-DIPPED GALVANIZED.
26. SEAL ALL PENETRATIONS THROUGH FIRE-RATED AREAS WITH U.L. LISTED OR FIRE MARSHALL APPROVED MATERIALS IF AND WHERE APPLICABLE TO THIS FACILITY AND PROJECT SITE.
27. PROVIDE A PORTABLE FIRE EXTINGUISHER WITH A RATING OF NOT LESS THAN 2-A OR 2-A10BC WITHIN 75 FEET TRAVEL DISTANCE TO ALL PORTIONS OF THE PROJECT AREA CONSTRUCTION.
28. ELECTRICAL POWER SYSTEM SHALL BE GROUNDED PER NEC ARTICLES 250 AND 810.
29. ALL NEW OPENINGS IN THE EXTERIOR ENVELOPE OF CONDITIONED SPACES SUCH AS AT WALL AND ROOF PENETRATIONS SHALL BE CAULKED OR SEALED TO LIMIT INFILTRATION OF AIR AND MOISTURE.
30. UPON COMPLETION OF CONSTRUCTION, NEXTNAV CONSTRUCTION MANAGER SHALL CONDUCT A WALK-THRU WITH PROPERTY OWNER OR REPRESENTATIVE OF PROPERTY OWNER.
31. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING ALL SYSTEM EQUIPMENT IN A CLEAN WORKING ORDER UNTIL ACCEPTANCE OF THE PROJECT BY NEXTNAV.
32. INSTALL ALL EQUIPMENT AND MATERIALS PER THE LATEST EDITION OF THE MANUFACTURER'S INSTALLATION SPECIFICATIONS UNLESS SPECIFICALLY OTHERWISE INDICATED, OR WHERE LOCAL CODES OR REGULATION TAKE PRECEDENCE.

ROOFING & WATERPROOFING NOTES

1. CONTRACTOR SHALL CONTACT BUILDING OWNER TO DETERMINE IF ROOF IS UNDER WARRANTY. CONTRACTOR SHALL GUARANTEE THAT ANY AND ALL NEW ROOFING WORK MEETS THE SPECIFICATION OF ANY EXISTING ROOFING WARRANTIES SUCH THAT THE WARRANTY IS NOT MADE INVALID AS A RESULT OF THIS WORK. IF IT IS DETERMINED THAT THE ARCHITECT'S DETAILING IS INADEQUATE OR IMPROPER OR IF ANY OTHER DISCREPANCY IS FOUND, THEY CONTRACTOR SHALL IMMEDIATELY NOTIFY THE ARCHITECT AND THE NEXTNAV PROJECT MANAGER IN WRITING. ULTIMATELY, THE CONTRACTOR SHALL BE RESPONSIBLE FOR COMPLYING WITH THE ORIGINAL ROOF MANUFACTURER'S SPECIFICATIONS.
2. CONTRACTOR SHALL USE METHODS AND MATERIALS SIMILAR AND COMPATIBLE WITH EXISTING MATERIALS & CONDITIONS FOR ROOF PATCHING, NEW PENETRATIONS, ETC.
3. THE CONTRACTOR SHALL PROPERLY SEAL ALL NEW ROOF & BUILDING ENVELOPE PENETRATIONS SUCH THAT THE INTEGRITY OF THE ORIGINAL BUILDING ASSEMBLY AND ALL APPLICABLE WARRANTIES ARE MAINTAINED.
4. IF IT DEEMED NECESSARY TO REMOVE EXISTING FINISHES AND/OR MATERIALS, THE CONTRACTOR SHALL BE RESPONSIBLE FOR RECONSTRUCTING FINISHES AND MATERIALS TO LIKE-NEW CONDITION. CONTRACTOR SHALL MAINTAIN THE ORIGINAL COLORS, TEXTURES & FINISHES UNLESS SPECIFICALLY NOTED TO THE CONTRARY OR APPROVED BY THE NEXTNAV CONSTRUCTION MANAGER IN ADVANCE.
5. AT THE NEXTNAV CONSTRUCTION MANAGER'S DIRECTION, THE CONTRACTOR SHALL PROVIDE ROOFTOP WALK PADS TO ALL NEW EQUIPMENT INCLUDING ANTENNAS AND BTS UNITS AND ALONG COAX CABLE ROUTING. ON CONVENTIONAL ROOFING, THE WALK PADS SHALL BE "DUCK BOARDS" AS MANUFACTURED BY APC OR EQUAL ON SPECIAL ROOFING SYSTEMS SUCH AS SINGLE MEMBRANE ROOFS WILL REQUIRE A SPECIFIC PRODUCT AS NOTED ON PLANS OR AS REQUIRED BY NOTES 1 & 2 ABOVE.

PENETRATION AT FIRE RATED ASSEMBLIES

1. AT THE NEXTNAV PROJECT MANAGER'S DIRECTION, THE CONTRACTOR SHALL PROVIDE "HILTI" HIGH PERFORMANCE FIRE STOP SYSTEM #FS601 AT ALL FIRE RATED PENETRATIONS INSTALLED PER MANUFACTURER'S LATEST INSTALLATION SPECIFICATIONS.
2. ALL PENETRATIONS THROUGH FIRE RATED ASSEMBLIES SHALL BE CONSTRUCTED SO AS TO MAINTAIN AN EQUAL OR GREATER FIRE RATING.

PAINTING NOTES & SPECIFICATIONS

- A. GENERAL
1. ALL PAINT PRODUCT LINES SHALL BE SHERWIN WILLIAMS UNLESS SPECIFICALLY NOTED OTHERWISE.
2. CONTRACTOR SHALL PREPARE ALL SURFACES AND APPLY ALL FINISHES PER LATEST EDITION OF MANUFACTURER'S SPECIFICATIONS.
3. COMPLY WITH MANUFACTURER'S WRITTEN INSTRUCTIONS REGARDING SUFFICIENT DRYING TIME BETWEEN COATS WITH PROVISIONS AS RECOMMENDED BY MANUFACTURER FOR EXISTING WEATHER CONDITIONS.
4. FINISH COLOR AND TEXTURE OF ALL PAINTED SURFACES SHALL MATCH EXISTING ADJACENT SURFACES UNLESS OTHERWISE NOTED.
5. ALL PAINT MATERIAL DATA SHEETS SHALL BE PROVIDED TO THE NEXTNAV CONSTRUCTION MANAGER.
6. PREPARE PREVIOUSLY PAINTED SURFACE BY LIGHT SANDING WITH 400 GRIT SANDPAPER AND NON-HYDROCARBON WASH. PREPARE GALVANIZED SURFACES BY ACID ETCH OR SOLVENT CLEANING IN ACCORDANCE WITH SSPC-SP1.
7. FURNISH DROP CLOTHES, SHIELDS, MASKING AND PROTECTIVE METHODS TO PREVENT SPRAY OR DROPPINGS FROM DAMAGING ADJACENT SURFACES AND FACILITIES.
8. APPLY PAINT BY AIRLESS SPRAY, SANDING LIGHTLY BETWEEN EACH SUCCEEDING ENAMEL COAT ON FLAT SURFACES. APPLY MATERIAL TO ACHIEVE A COATING NO THINNER THAN THE DRY FILM THICKNESS INDICATED.
9. APPLY BLOCK FILTER TO CONCRETE BLOCK CONSTRUCTION AT A RATE TO ENSURE COMPLETE COVERAGE WITH PORES COMPLETELY FILLED.
10. CONTRACTOR SHALL CORRECT RUNS, SAGS, MISSES AND OTHER DEFECTS INCLUDING INADEQUATE COVERAGE AS DIRECTED BY THE NEXTNAV CONSTRUCTION MANAGER. REPAINT AS NECESSARY TO ACHIEVE SURFACES WHICH ARE SMOOTH, EVENLY COATED WITH UNIFORM SHEEN AND FREE FROM BLEMISHES.
- B. PAINTING SCOPE

1. PAINT THE FOLLOWING MATERIALS AND SYSTEMS CHECKED BELOW WITH THE COATING SYSTEM INDICATED.

PAINTING SCOPE				
SURFACE TO BE PAINTED	COATING SYSTEM	PAINT	DO NOT PAINT	N/A
BTS UNIT				
ALL EQUIPMENT & CABINETS OTHER THAN THE BTS UNIT				
ANTENNA COVERS, TILT BRACKETS, MOUNTING BRACKETS AND ASSOCIATED HARDWARE, CABLE AND CABLE COVERS EXPOSED TO NEW EXPOSED CORROSION AND HANDLES, ETC.				
FLUORINE LINER, WALK TRIM AND OTHER METAL SURFACES				
STUCCO, CONCRETE, CONCRETE BLOCK AND CONCRETE PIPE TYPICAL SYSTEMS				
PLYWOOD LUMBER AND WOOD TRIM INCLUDING THE EXPOSED SIDE OF ALL SECTIONS				
DETAILS				
CONCRETE PILES				
METAL PILES AND METAL POLE STAND-OFF				

- C. COATING SYSTEM SPECIFICATIONS
1. DTM ACRYLIC COATING (SERIES B66) BY SHERWIN WILLIAMS CO. 1MIL DFT PER COAT APPLIED IN TWO COATS OVER DTM BONDING PRIMER (B66A50).
2. 100% ACRYLIC, LATEX COATING EQUIVALENT TO A-100 (SERIES A-82) BY SHERWIN WILLIAMS CO. 1 MIL DFT PER COAT APPLIED IN TWO COATS OVER SPECIFIED PRIMER.
- PAINT & PRIMER
- D. ANTENNAS
- PRIMER - KEM AQUA E61-W525
- TOPCOAT - COROTHANE II B65W200/B60V22
- BTS CABINET
- PRIMER - KEM AQUA E61-W525
- TOPCOAT - COROTHANE II B65W200/B60V22
- COAXIAL JUMPER CABLES
- PRIMER - AS REQUIRED FOR ADHESION. APPLY ONE COAT OF KEM AQUA WATER REDUCIBLE PRIMER E61W25 REDUCED 25%
- TOPCOAT - 2 COATS COROTHANE II POLYURETHANE B65W200/B60V2
- RAW STEEL
- PRIMER - KEM BOND HS B50WZ4, DMT ACRYLIC PRIMER
- TOPCOAT - 2 COATS COROTHANE II POLYURETHANE B65W200/B60V2
- GALVANIZED METAL
- ACID ETCH WITH COMMERCIAL ETCH OR VINEGAR PRIMER COAT AND FINISH COAT (GALVITE HIGH SOLIDS OR DTM PRIMER/FINISH)
- STAINLESS STEEL
- PRIMER - DTM WASH PRIMER, B71Y1
- TOPCOAT - 2 COATS COROTHANE II POLYURETHANE B65W200/B60V2
- PRE-PRIMED STEEL
- TOUCH UP ANY RUST OR UN-PRIMED STEEL WITH KEM BOND HS, S50WZ4
- ALUMINUM & COPPER
- PRIMER - DTM WASH PRIMER, B71Y1
- TOPCOAT - 2 COATS COROTHANE II POLYURETHANE B65W200/B60V2
- CONCRETE MASONRY
- PRIMER - PRO MAR EXTERIOR BLOCK FILLER
- TOPCOAT - 2 COATS A-100 LATEX HOUSE & TRIM, SHEEN TO MATCH
- CONCRETE STUCCO(EXISTING)
- 2 COATS A-100 LATEX HOUSE & TRIM, SHEEN TO MATCH
- STUCCO
- PRIMER - PRO MAR MASONRY CONDITIONER B-46-W21000
- TOPCOAT - SUPER PAINT A-80 SERIES A-89 SATIN A-84 GLOSS
- WOOD
- PRIMER - A-100 EXTERIOR ALKYD W009D PRIMER Y-24W20
- TOPCOAT - 2 COATS A-100 LATEX HOUSE & TRIM SHEEN TO MATCH ADJACENT SURFACES
- FIELD CUTS/DAMAGE(PRIOR TO PRIME & PAINT)
- FIRST & SECOND COAT - CUPRINOL CLEAR WOOD PRESERVATIVE #158-0356
- ALL PENETRATIONS INTO FINISHED CLU-LAMS SHALL BE CAULKED WITH "SIKAFLEX" SEALANT
- STEEL TOUCH UP
- STEEL THAT HAS BEEN WELDED, CUT OR SCRATCHED IN THE FIELD SHALL BE TOUCHED UP WITH COLD GALVANIZED PAINT

STRUCTURAL SPECIFICATIONS

- A. GENERAL
- PRECEDENCE: UNLESS OTHERWISE SHOWN OR SPECIFIED, THE FOLLOWING GENERAL NOTES SHALL APPLY. INFORMATION ON THESE DRAWINGS SHALL HAVE THE FOLLOWING PRECEDENCE.
- A. ALL DIMENSIONS TO TAKE PRECEDENCE OVER SCALE SHOWN ON PLANS, SECTIONS AND DETAILS.
- B. NOTES AND DETAILS ON DRAWINGS SHALL TAKE PRECEDENCE OVER GENERAL NOTES AND TYPICAL DETAILS.
- C. MATERIAL NOTES AND SPECIFICATIONS ON THE DRAWINGS SHALL TAKE PRECEDENCE OVER THE SPECIFICATIONS.
2. OTHER TRADES: SEE THE ARCHITECTURAL DRAWINGS FOR ALL DIMENSIONS NOT SHOWN.
3. GENERAL DETAILS AND NOTES ON THESE SHEETS SHALL APPLY UNLESS SPECIFICALLY SHOWN OR NOTED OTHERWISE. CONSTRUCTION DETAILS NOT FULLY SHOWN OR NOTED SHALL BE SIMILAR TO DETAILS SHOWN FOR SIMILAR CONDITIONS.
4. SHORING: IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO INSTALL ALL TEMPORARY BRACING AND SHORING TO INSURE THE SAFETY OF THE WORK UNTIL IT IS IN IT'S COMPLETED FORM. THIS INCLUDES UNDERPINNING EXISTING FOOTINGS WHERE APPLICABLE.
5. SAFETY: THESE STRUCTURAL DRAWINGS REPRESENT THE FINISHED STRUCTURE. UNLESS OTHERWISE INDICATED, THEY DO NOT INDICATE THE METHOD OF CONSTRUCTION.
6. WATERPROOFING: WATERPROOFING AND DRAINAGE, DETAILS AND SPECIFICATIONS, ALTHOUGH SOMETIMES SHOWN ON STRUCTURAL DRAWING ARE OF GENERAL INFORMATION PURPOSES ONLY. WATERPROOFING AND DRAINAGE ARE SOLELY THE DESIGN RESPONSIBILITY OF THE ARCHITECT.
- B. STEEL
1. ALL STRUCTURAL STEEL SECTIONS AND WELDED PLATE MEMBERS SHALL CONFORM TO ASTM A-36 AND BE FABRICATED IN ACCORDANCE WITH THE SPECIFICATIONS OF THE AISC.
2. ALL BOLTS SHALL CONFORM TO ASTM A-307 UNLESS OTHERWISE NOTED ON PLANS. HIGH STRENGTH BOLTS SHALL CONFORM TO ASTM A-325
3. STEEL PIPE COLUMNS SHALL BE GRADE "B" CONFORMING TO ASTM A53.
4. STEEL TUBING SHALL BE GRADE "B" CONFORMING TO ASTM A500.
5. ALL WELDING SHALL BE DONE BY THE SHIELDED ARC METHOD. ALL WELDERS SHALL BE PROPERLY QUALIFIED AND BE PRE-APPROVED. SURPLUS METAL SHALL BE DRESSED OFF TO SMOOTH, EVEN SURFACES WHERE WELDS ARE NOT EXPOSED TO VIEW. ALL WELDING SHALL COMPLY WITH THE LATEST A.W.S. SPECIFICATIONS.
6. THE FOLLOWING WELDING EQUIPMENT MUST BE USED:
- A. 250 AMP WELDERS.
- B. ROD OVENS.
- C. GRINDERS.
7. NO BUZZ BOXES SHALL BE USED.
8. ALL STRUCTURAL STEEL SHALL MILL CERTIFICATION. MILL CERTIFICATION SHALL BE KEPT ON THE JOB SITE FOR EXAMINATION BY THE DESIGN ENGINEER AND THE CITY INSPECTOR.
9. ALL HIGH STRENGTH BOLTS SHALL HAVE MILL CERTIFICATION. MILL CERTIFICATION SHALL BE KEPT ON THE JOB SITE FOR EXAMINATION BY THE INSPECTOR.
10. STEEL THAT HAD BEEN WELDED, CUT OR SCRATCHED IN THE FIELD SHALL BE TOUCHED UP WITH COLD GALVANIZING PAINT.
11. WELDING INDICATED IN THESE DRAWINGS IS DESIGNED FOR ONE HALF OF ALLOWABLE CODE STRESSES UNLESS SPECIFICALLY NOTED "FULL STRESS" AT END OF WELD SYMBOL.
- C. CONCRETE
1. STRENGTH: CONCRETE FOR THE PROJECT SHALL HAVE THE FOLLOWING ULTIMATE COMPRESSIVE STRENGTH AT AGE OF 28 DAYS:
- | LOCATION        | STRENGTH | WT.    | SLUMP | ADMIXTURE |
|-----------------|----------|--------|-------|-----------|
| A. SLAB&FOOTING | 3000psi  | 150pcf | 4"    | NONE      |
2. INSPECTION: CONCRETE WITH SPECIFIED STRENGTH GREATER THAN 2500psi SHALL BE CONTINUOUSLY INSPECTED DURING PLACEMENT BY A DEPUTY INSPECTOR EMPLOYED BY A TESTING LABORATORY APPROVED BY THE BUILDING DEPT.
3. REBAR GRADES: REINFORCING STEEL SHALL BE CLEAN PERFORMED BARS CONFORMING TO ASTM A615 AS FOLLOWS:
- #4 & SMALLER BARS.....GRADE 40
- #5 & LARGER BARS.....GRADE 60
- ALL BARS AT CAISSON FOOTING...GRADE 60
4. CEMENT: FOUNDATIONS & SLABS: TYPE V, LOW ALKALI, CONFORMING TO ASTM C-150.
- PIER/CAISSON FOOTINGS: TYPE V, LOW ALKALI, CONFORMING TO ASTM C-150.
5. AGGREGATE: USED IN THE CONCRETE SHALL CONFORM TO ASTM C-33. USE ONLY AGGREGATES KNOWN NOT TO CAUSE EXCESSIVE SHRINKAGE. THE MAXIMUM SIZE AGGREGATE IN CONCRETE WORK SHALL BE THE FOLLOWING:
- A. FOUNDATIONS & SLABS 9" OR LESS: 3/4" GRAVEL
- B. PIER/CAISSON FOOTING: 1" GRAVEL.
6. WATER: SHALL BE CLEAN AND FREE FROM DELETERIOUS AMOUNT OF ACIDS, ALKALIS, ORGANIC MATERIALS AND SHALL BE SUITABLE FOR HUMAN CONSUMPTION.
7. MIXING: PREPARATION OF CONCRETE SHALL CONFORM TO ASTM C-94. NO MORE THAN 90 MINUTES SHALL ELAPSE BETWEEN CONCRETE BATCHING AND CONCRETE PLACEMENT UNLESS APPROVED BY A TESTING AGENCY.
8. SEGREGATION OF AGGREGATES: CONCRETE SHALL NOT BE FLOPPED THROUGH REINFORCING STEEL (AS IN WALLS, COLUMNS, CAISSON, AND DROP CAPITALS) SO AS TO CAUSE SEGREGATION OF AGGREGATES. USE HOPPERS, CHUTES, TRUNKS OR PUMP HOSE SO THAT THE FREE UNCONFINED FALL OF CONCRETE SHALL NOT EXCEED 5 FT.
9. SPLICES OF REINFORCING STEEL SHALL BE LAPPED A MINIMUM OF 30 DIAMETERS AND SECURELY WIRED TOGETHER. SPLICES OF ADJACENT REINFORCING BARS SHALL BE STAGGERED WHEREVER POSSIBLE.
10. REAR CLEARANCE: MINIMUM COVERAGE FOR JOISTS, BEAMS, GIRDERS AND COLUMNS SHALL BE TO FACE OF STIRRUPS OR TIES. UNLESS OTHERWISE NOTED, CONCRETE COVERAGE FOR REINFORCING BARS TO FACE OF BAR SHALL BE AS FOLLOWS:
- |                                             |        |
|---------------------------------------------|--------|
| A. CONCRETE IN CONTACT WITH EARTH, UNFORMED | 3"     |
| B. CONCRETE IN CONTACT WITH EARTH, FORMED   | 2"     |
| C. WALL, EXTERIOR FACE                      | 1-1/2" |
| D. WALL, INTERIOR FACE                      | 1"     |
| E. STRUCTURAL SLABS                         | 3/4"   |
| F. JOISTS                                   | 3/4"   |
| G. BEAMS, GIRDERS & COLUMNS                 | 1-1/2" |
11. PENETRATIONS: NO SLEEVES OR CHASES SHALL BE PLACED IN BEAMS, SLABS, WALLS AND COLUMNS, EXCEPT THOSE SHOWN ON THE PLANS. CONTRACTOR SHALL OBTAIN PRIOR APPROVAL FOR INSTALLATIONS OF ANY ADDITIONAL SLEEVES OR CHASES. ALL PLUMBING, ELECTRICAL AND MECHANICAL OPENINGS SHALL BE SLEEVES. CORING IS NOT ALLOWED UNLESS PRIOR APPROVAL IS OBTAINED FROM THE STRUCTURAL ENGINEER.
12. EMBEDDED ITEMS: CONDUIT PLACED IN A CONCRETE SLAB SHALL NOT HAVE AN OUTSIDE DIAMETER GREATER THAN 1/4 THE THICKNESS OF THE SLAB. CONDUIT SHALL NOT BE EMBEDDED IN A SLAB THAT IS LESS THAN 3-1/2" THICK, UNLESS SLAB IS LOCALLY THICKENED. MINIMUM CLEAR DISTANCE BETWEEN CONDUITS SHALL BE SIX INCHES.
13. ANCHORING: ALL ANCHOR BOLTS, REINFORCING STEEL, DOWELS, INSERTS, ETC. SHALL BE WELL SECURED IN POSITION PRIOR TO PLACING CONCRETE. NO REPOSITIONING DURING CONCRETE POUR IS ALLOWED.
14. CURING: SLABS SHALL BE SPRAYED WITH A CURING COMPOUND IMMEDIATELY AFTER FINISHING. CURING COMPOUNDS USED ON CONCRETE WHERE TILE OR FLOOR COVERING IS TO BE BONDED TO THE CONCRETE SURFACE SHALL BE APPROVED BY THE TILE OR FLOOR COVERING MANUFACTURER. KEEP SLAB WET FOR 7 DAY MINIMUM PERIOD.
15. CONSOLIDATION: ALL CONCRETE SHALL BE VIBRATED AS IT IS BEING PLACED WITH ELECTRICALLY OPERATED VIBRATING EQUIPMENT.
- D. TIMBER
1. ALL FRAMING LUMBER FOR 4X AND LARGER BEAMS SHALL BE NO. 1 GRADE DOUGLAS FIR, S4S, UNLESS NOTED OTHERWISE ON THE DRAWINGS.
2. ALL FRAMING LUMBER FOR 2X RAFTERS AND JOISTS SHALL BE NO.2 GRADE DOUGLAS FIR, S4S, UNLESS NOTED OTHERWISE ON DRAWINGS
3. STRIPPING, BLOCKING, BACKING AND OTHER NON-STRUCTURAL LUMBER SHALL BE NO. 2 OR STD & BTR GRADE DOUGLAS FIR, S4S. 2X4 STUD WALLS SHALL BE D.F. STANDARD & BTR.
4. ALL BEAMS, JOISTS AND RAFTERS SHALL BE INSTALLED WITH CROWN SIDE UP.
5. ROOF PLYWOOD SHALL MATCH EXISTING PLYWOOD SHEATHING WITH A SPAN INDEX RATIO 32/16. EDGE NAIL WITH 8d AT 6" O.C. UNLESS NOTED OTHERWISE ON PLANS. FIELD NAIL WITH 8d AT 12" O.C.
6. PLYWOOD SHEETS SHALL BE LAID WITH THE FACE GRAIN PERPENDICULAR TO SUPPORTS AND WITH THE EDGES STAGGERED, UNLESS NOTED OTHERWISE ON THE PLANS.
7. PLYWOOD SHALL BE GRADE MARKED BY DFPA, TECO, OR PTL AND SHALL CONFORM TO PS 1-83.
8. THE MAXIMUM MOISTURE CONTENT OF ALL LUMBER SHALL NOT EXCEED 24% AT THE TIME OF INSTALLATION.
9. MINIMUM NAILING SHALL COMPLY WITH TABLE 23-1-q OF BUILDING CODE. ALL NAILS SHALL BE COMMON WIRE NAILS.
10. ALL BOLTS SHALL HAVE STANDARD CUT WASHERS UNDER HEADS AND/OR NUTS WHERE IN CONTACT WITH WOOD.
11. LAG BOLTS SHALL BE SCREWED INTO PLACE, NOT DRIVEN. LAG BOLTS SHALL BE INSTALLED IN PRE-DRILLED HOLES WITH A DIAMETER EQUAL TO 75% DIAMETER OF BOLT.
12. CONNECTORS: ALL SHEET METAL FRAMING CONNECTORS SHOWN IN THE PLANS SHALL BE STRONG CONNECTORS AS MANUFACTURED BY THE SAMSON COMPANY. SUBSTITUTIONS MAY BE MADE WHEN APPROVED BY THE STRUCTURAL ENGINEER.
13. ALL LUMBER EXPOSED TO WEATHER OR IN CONTACT WITH MASONRY OR CONCRETE SHALL BE WOLMANIZED PRESSURE TREATED LUMBER OR A NATURALLY DECAY RESISTANT LUMBER SUCH AS REDWOOD OR CEDAR.
14. ALASKAN YELLOW CEDAR GLUE-LAMINATED BEAMS
- A. LUMBER SPECIES: ALASKAN YELLOW CEDAR (A.C.) CONFORMING TO 20F-V12
- B. STRENGTH PROPERTIES:
- Fb BOTTOM FIBER BENDING STRESS 2000psi MIN.
- Ft TOP FIBER BENDING STRESS 1000psi MIN.
- Fv SHEAR STRESS 190psi MIN.
- Fc COMPRESSION STRESS PERPENDICULAR TO GRAIN 560psi MIN.
- E MODULES ELASTICITY 1400ksi MIN.
- C. CAMBER TO RADIUS OF 1800' U.O.N.
- D. ALL GLB'S SHALL BE FABRICATED WITH EXTERIOR GLUE.
- E. MANUFACTURE OF GLB'S SHALL CONFORM TO THE UBC.
- F. GLU-LAM MATERIAL SHALL BE IN ACCORDANCE WITH ANSI/AITC A190.1 AND ASTM D3737.

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APPROVALS

R.F.

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SITE ACQUISITION

OWNER APPROVAL

PROJECT NAME

CENTERVILLE

PROJECT NUMBER

CA-SFO-0068

5275 CENTRAL AVENUE  
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09/28/11 90% PRELIM CD'S (P1-B1)  
10/07/11 100% FINAL CD'S (P1-B2)  
10/14/11 CLIENT COMMENTS (P1-B3)  
01/27/12 CLIENT COMMENTS (P1-B4)

SHEET TITLE

SPECIFICATIONS AND NOTES

T-2



NOT USED

3

OMNI ANTENNA SPECIFICATIONS

2

870-960 MHz

Amphenol  
ANTENNA SOLUTIONS

BCD-8707-EDIN-X

V-Pol | Omni | 360° | 6.5 dBi

Electrical Characteristics	
Frequency bands	870-960 MHz
Polarization	Vertical
Horizontal beamwidth	360°
Vertical beamwidth	14°
Gain	6.5 dBi (8.6 dB)
Electrical dower (X)	1.25, 3, 5, 6, 10
Impedance	50Ω
VSWR	≤ 1.43:1
Null fill	15% (-16.48 dB)
Input power	500 W
Lightning protection	Direct Ground
Connector(s)	1 Port / EDIN or NE / Female / Bottom

Mechanical Characteristics	
Dimensions Length x Diameter	2158 x Ø95 mm / 85.0 x Ø2.6 in
Radome length	1656 mm / 65.3 in
Support pipe Length X Diameter	800 x Ø70 mm / 19.7 x Ø2.8 in
Support pipe material	Aluminum alloy
Weight without mounting brackets	9 kg / 20.0 lbs
Survival wind speed	>201 km/hr / >125 mph
Wind area	0.14 m² / 1.5 ft²
Wind load @ 161 km/hr (100 mph)	210 N / 47 lbf

Mounting Options	
Standard Mounting Bracket Kit	Part Number: 36312000 / Fits Pole Diameter: Ø50-160 mm / Ø2.0-6.3 in / Weight: 8.3 kg / 18 lbs
Offset Mounting Bracket Kit	Part Number: 36413001 / Fits Pole Diameter: Ø50-160 mm / Ø2.0-6.3 in / Weight: 7.7 kg / 17 lbs
Downrill Bracket Kit	Antenna cannot be mechanically downrilled
Inverted Mounting	The BCD-8707-EDIN-X cannot be mounted in an inverted position
Inverted Models	The inverted model is sold under a different part number: BCD-8707-EDIN-X-Invert

BCD-8707-EDIN-X  
Horizontal  
BCD-8707-EDIN-X  
5° | Vertical  
BCD-8707-EDIN-1.25  
1.25° | Vertical  
BCD-8707-EDIN-X  
6° | Vertical  
BCD-8707-EDIN-3  
3° | Vertical  
BCD-8707-EDIN-10  
10° | Vertical  
Pattern Analysis Software

Quoted performance parameters are provided to offer typical or range values only and may vary as a result of normal manufacturing and operational conditions. Extreme operational conditions and/or stress on structural supports is beyond our control. Such conditions may result in damage to this product. Improvements to product may be made without notice.

1 of 1      www.amphenol-antennas.com      REV072111

ANTENNA CONFIGURATION SCHEDULE

1

ANTENNA	# OF ANTENNAS	AZIMUTH	TOP OF ANTENNA	ANTENNA MAKE ANTENNA MODEL	ELECTRICAL TILT	MAIN CABLE LENGTH	CABLE SIZE	# OF CABLES	COMMENTS
OMNI	1	N/A	± 80'-0"	AMPHENOL BCD-8707	0°	± 100'-0"	LDF5	1	

ANTENNA CONFIGURATION SCHEDULE

1

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REGISTERED PROFESSIONAL ARCHITECT  
JEFFREY L. ROME  
C-020876  
EXP. 2/28/18  
STATE OF CALIFORNIA  
PREPARED FOR

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APPROVALS

R.F.

ZONING

CONSTRUCTION

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OWNER APPROVAL

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01/27/12 CLIENT COMMENTS (P1-B4)

SHEET TITLE

OMNI ANTENNA/GPS UNIT SPECIFICATIONS AND CONFIGURATION

T-3

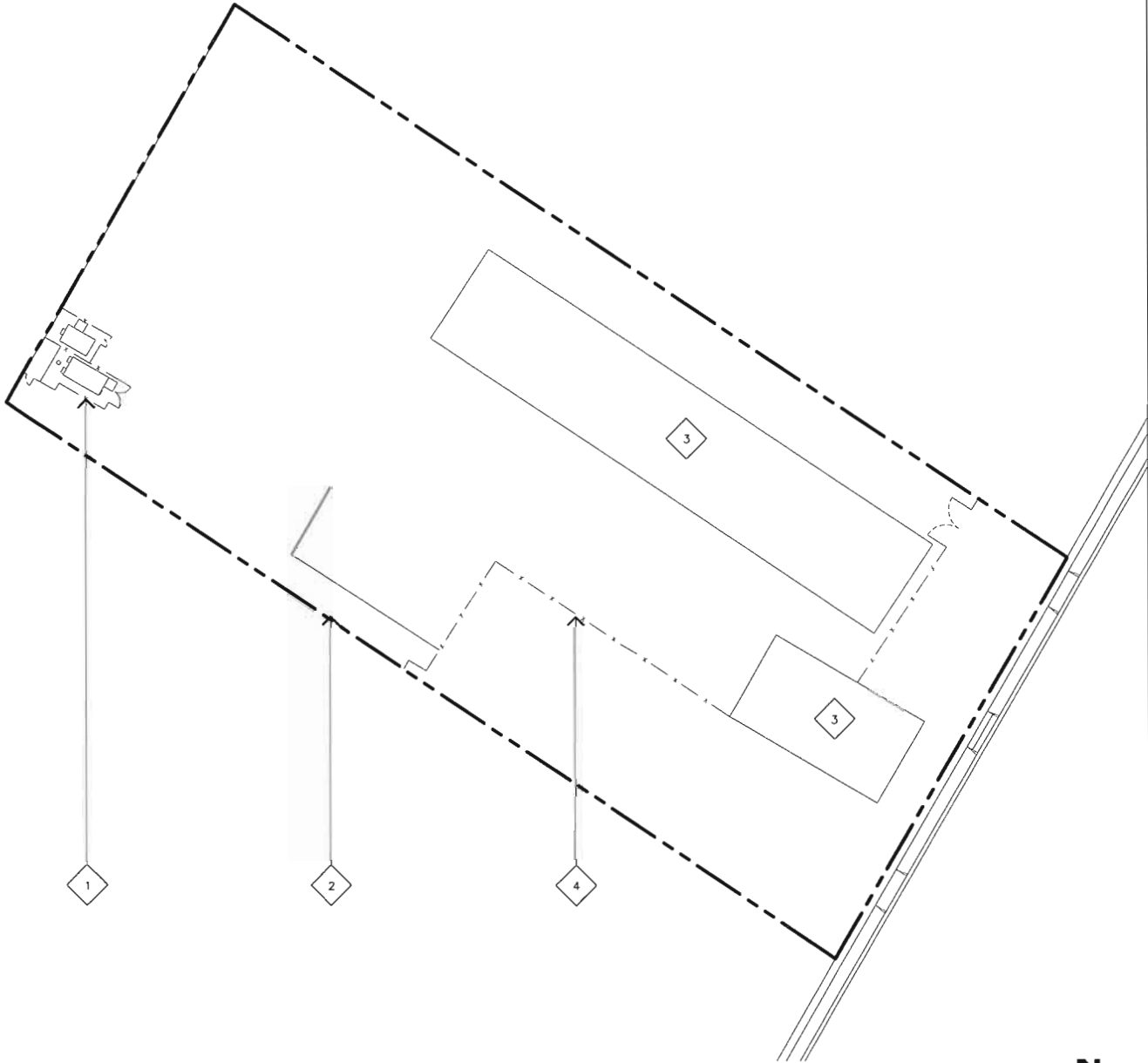
1

JRA PROJECT NUMBER: 111130



OVERALL SITE PLAN KEYNOTES

- 1 (E) ATC LEASE AREA.
- 2 (E) PROPERTY LINE, TYP.
- 3 (E) COMMERCIAL BUILDING.
- 4 (E) PERIMETER FENCE.



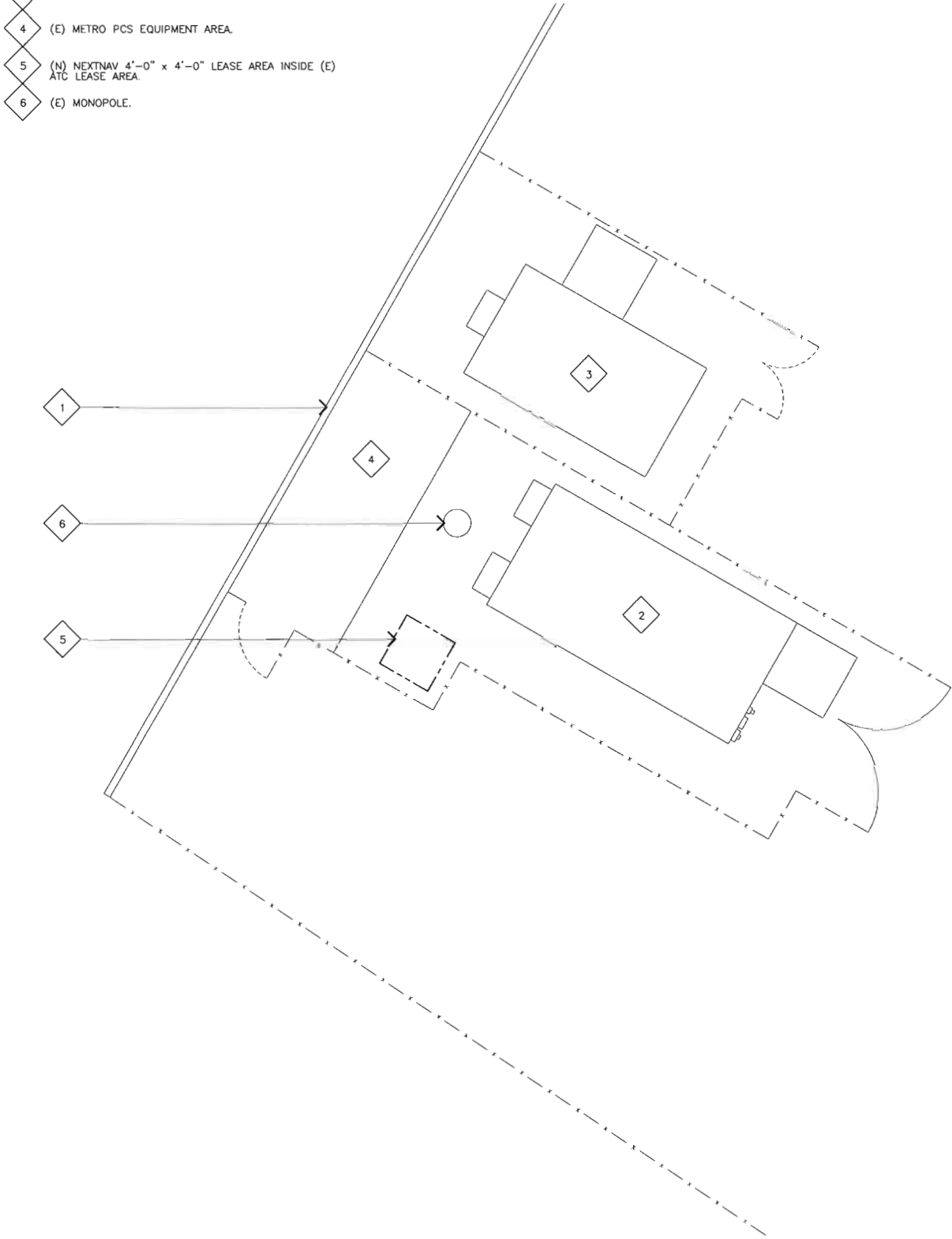
OVERALL SITE PLAN

SCALE:  
1"=100'

2

ENLARGED SITE PLAN KEYNOTES

- 1 (E) ATC LEASE AREA WITH (N) NEXTNAV LEASE AREA AND EQUIPMENT CABINET.
- 2 (E) NEXTEL EQUIPMENT SHELTER.
- 3 (E) AT&T EQUIPMENT SHELTER.
- 4 (E) METRO PCS EQUIPMENT AREA.
- 5 (N) NEXTNAV 4'-0" x 4'-0" LEASE AREA INSIDE (E) ATC LEASE AREA.
- 6 (E) MONOPOLE.



ENLARGED SITE PLAN

SCALE:  
3/32"=1'-0"

1

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01/27/12 CLIENT COMMENTS (P1-B4)

SHEET TITLE

OVERALL SITE PLAN/  
ENLARGED SITE PLAN

A-1



ENLARGED SITE PLAN KEYNOTES

- 1

(N) NEXTNAV OMNI ANTENNA AT 225' ON (N) 2'-0" STANDOFF ARM ON (E) ATC MONOPOLE WITH; SEE DETAILS 2/T-3 AND 3/A-4.
- 2

(E) ATC LEASE AREA WITH (N) NEXTNAV LEASE AREA AND EQUIPMENT CABINET.
- 3

(N) NEXTNAV EQUIPMENT CABINET MOUNTED TO (N) H-FRAME; SEE DETAIL 1/A-4.
- 4

(E) NEXTEL EQUIPMENT SHELTER.
- 5

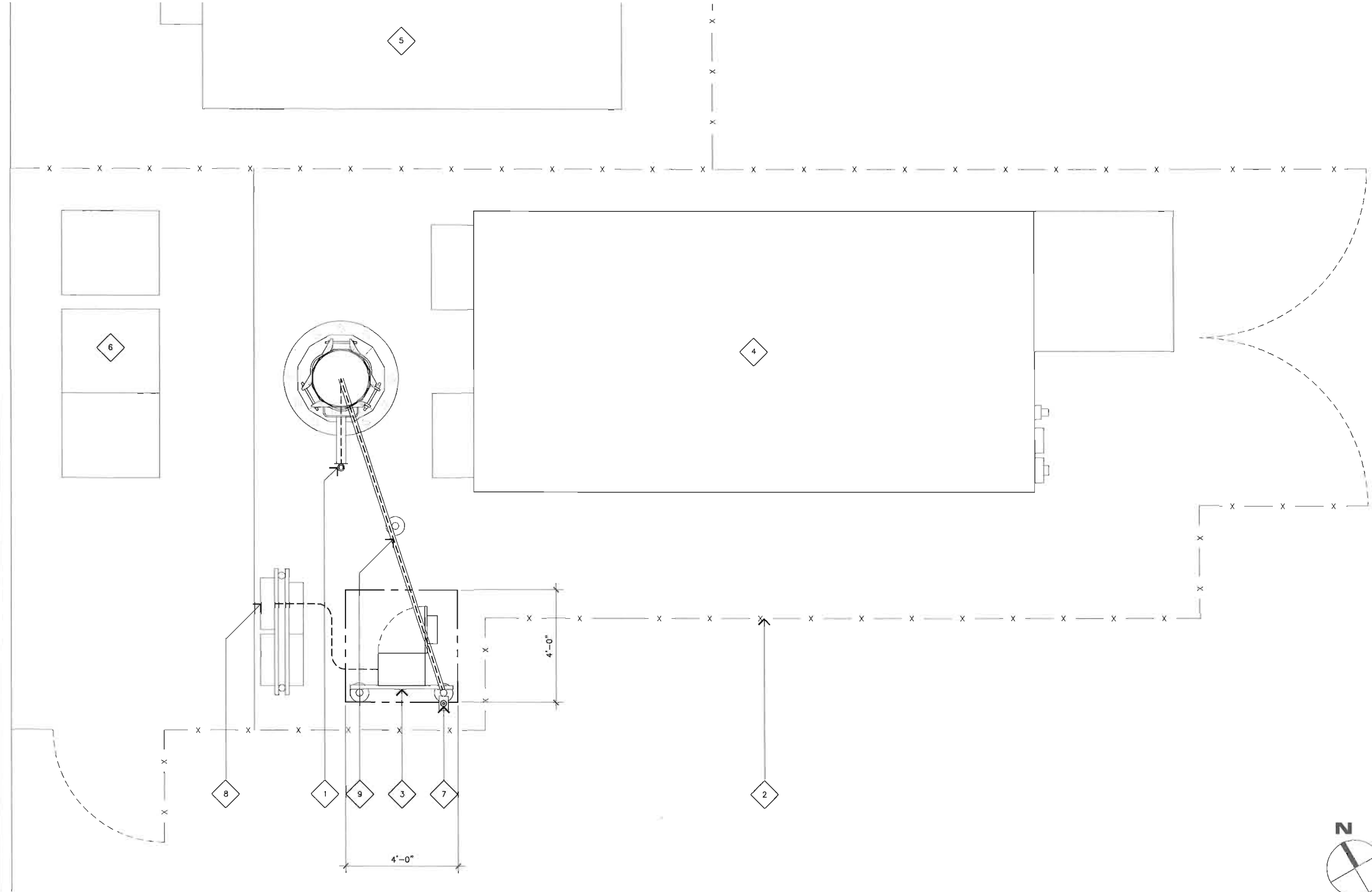
(E) AT&T EQUIPMENT SHELTER.
- 6

(E) METRO PCS EQUIPMENT AREA.
- 7

(N) NEXTNAV GPS ON (N) H-FRAME.
- 8

(E) ELECTRICAL PANEL FOR NEXTNAV POWER SOURCE; SEE DETAIL 6/A-5.
- 9

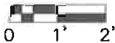
(N) 7/8"Ø NEXTNAV COAXIAL TRANSMISSION CABLE INSIDE (N) CONDUIT TO (E) HANDHOLE AND INSIDE MONOPOLE OUT HANDHOLE BELOW (N) OMNI ANTENNA AT TOP.



ENLARGED SITE PLAN

SCALE:

1/2"=1'-0"



1

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10/14/11	CLIENT COMMENTS (P1-B3)
01/27/12	CLIENT COMMENTS (P1-B4)

SHEET TITLE

EQUIPMENT PLAN/  
ANTENNA PLAN

A-2

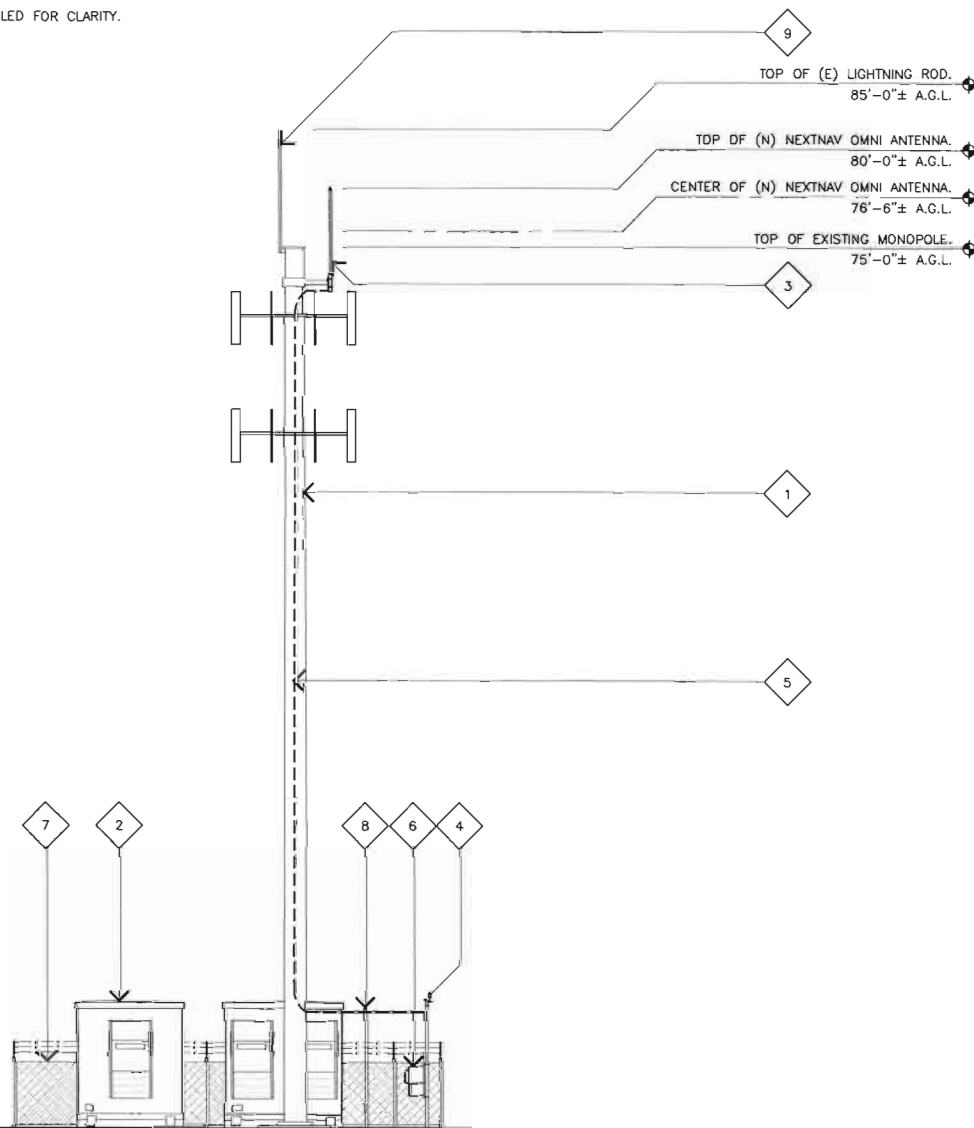


SOUTHEAST ELEVATION KEYNOTES

- 1 (E) ATC MONOPOLE.
- 2 (E) NEXTEL EQUIPMENT SHELTER.
- 3 (N) NEXTNV OMNI ANTENNA ON (N) 2'-0" STANDOFF ARM; SEE DETAILS 2/T-3 AND 3/A-4.
- 4 (N) NEXTNV GPS ON (N) H-FRAME.
- 5 (N) 7/8" NEXTNV COAXIAL TRANSMISSION CABLE INSIDE (N) CONDUIT TO (E) HANDHOLE AND INSIDE MONOPOLE OUT HANDHOLE BELOW (N) OMNI ANTENNA AT TOP.
- 6 (N) NEXTNV EQUIPMENT CABINET ON (N) H-FRAME IN EXPANDED ATC LEASE AREA.
- 7 (E) 6'-0" CHAIN LINK FENCE BY ATC.
- 8 (N) 8'-0" POST IN (N) FOOTING FOR CONDUIT SUPPORT; SEE DETAIL 3/A-5 SIMILAR.
- 9 (E) LIGHTNING ROD AT TOP OF MONOPOLE.

SOUTHEAST ELEVATION GENERAL NOTES

A. (E) ANTENNAS ARE NOT INDIVIDUALLY LABELED FOR CLARITY.



SOUTHEAST ELEVATION

SCALE:  
3/32"=1'-0"



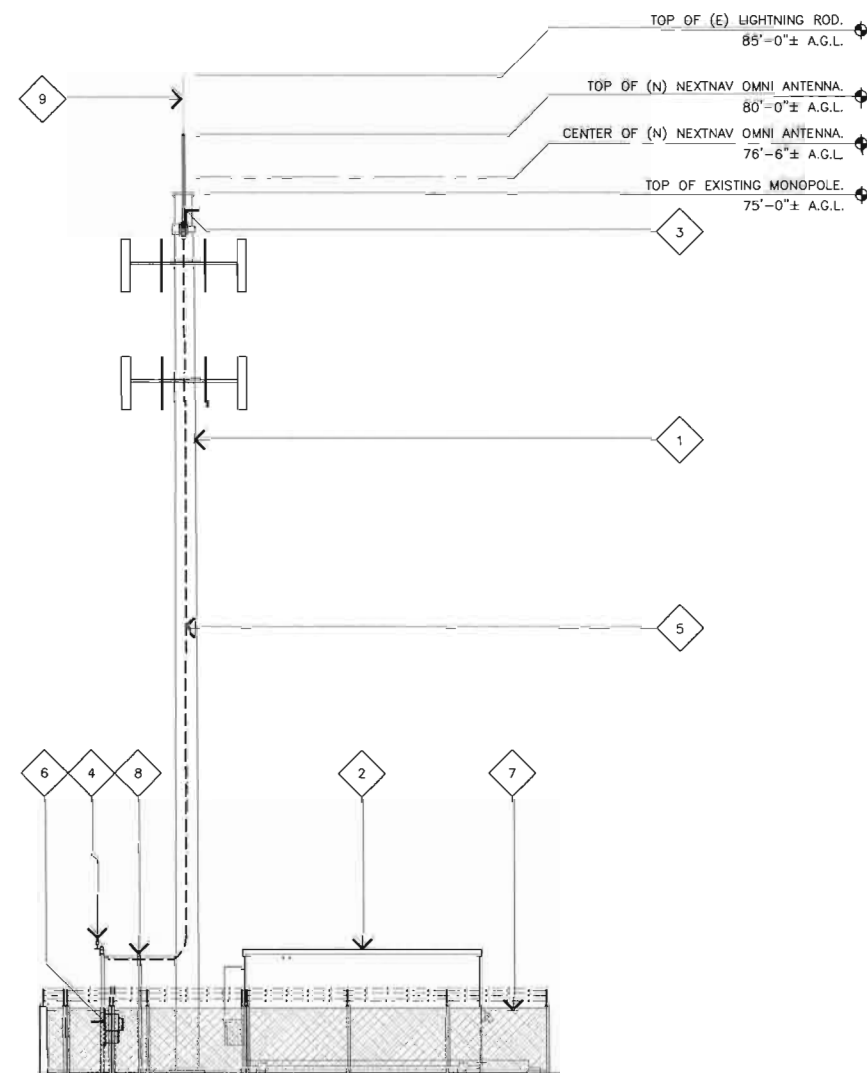
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SOUTHWEST ELEVATION KEYNOTES

- 1 (E) ATC MONOPOLE.
- 2 (E) NEXTEL EQUIPMENT SHELTER.
- 3 (N) NEXTNV OMNI ANTENNA ON (N) 2'-0" STANDOFF ARM; SEE DETAILS 2/T-3 AND 3/A-4.
- 4 (N) NEXTNV GPS ON (N) H-FRAME.
- 5 (N) 7/8" NEXTNV COAXIAL TRANSMISSION CABLE INSIDE (N) CONDUIT TO (E) HANDHOLE AND INSIDE MONOPOLE OUT HANDHOLE BELOW (N) OMNI ANTENNA AT TOP.
- 6 (N) NEXTNV EQUIPMENT CABINET ON (N) H-FRAME IN EXPANDED ATC LEASE AREA.
- 7 (E) 6'-0" CHAIN LINK FENCE BY ATC.
- 8 (N) 8'-0" POST IN (N) FOOTING FOR CONDUIT SUPPORT; SEE DETAIL 3/A-5 SIMILAR.
- 9 (E) LIGHTNING ROD AT TOP OF MONOPOLE. (BEYOND)

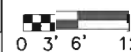
SOUTHWEST ELEVATION GENERAL NOTES

A. (E) ANTENNAS ARE NOT INDIVIDUALLY LABELED FOR CLARITY.  
B. (E) LIGHTNING ROD NOT SHOWN FOR CLARITY.



SOUTHWEST ELEVATION

SCALE:  
3/32"=1'-0"



1

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SHEET TITLE

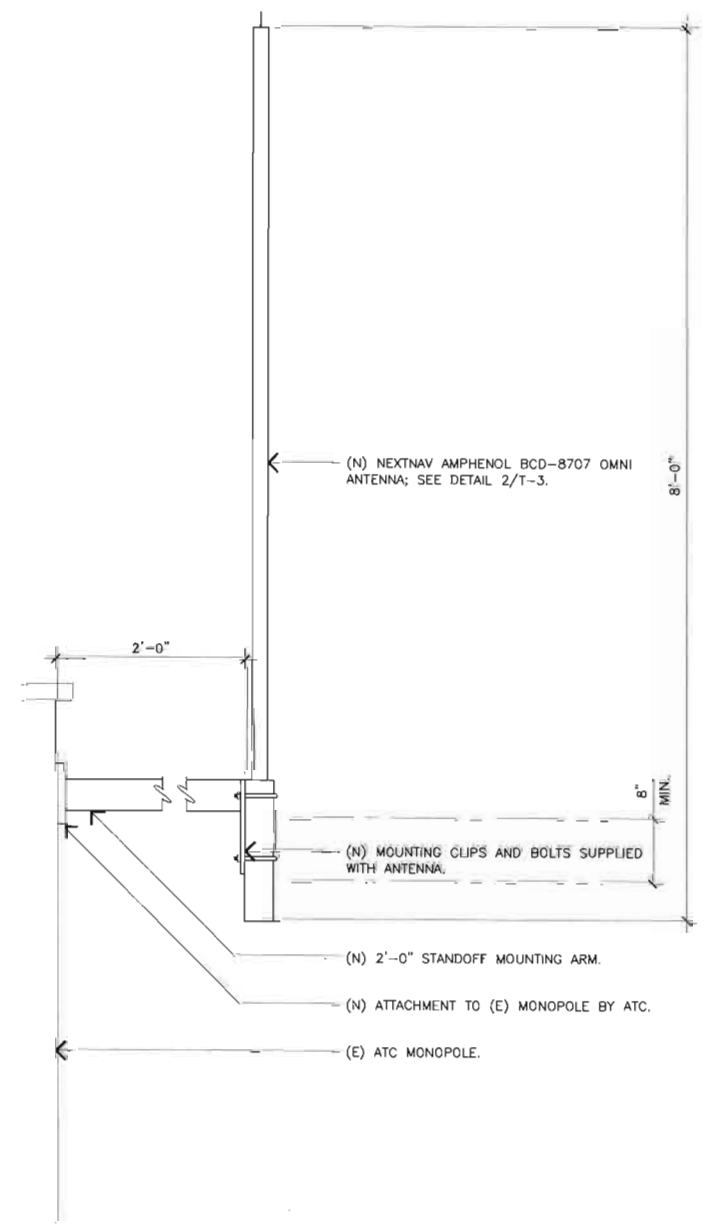
ELEVATIONS

A-3

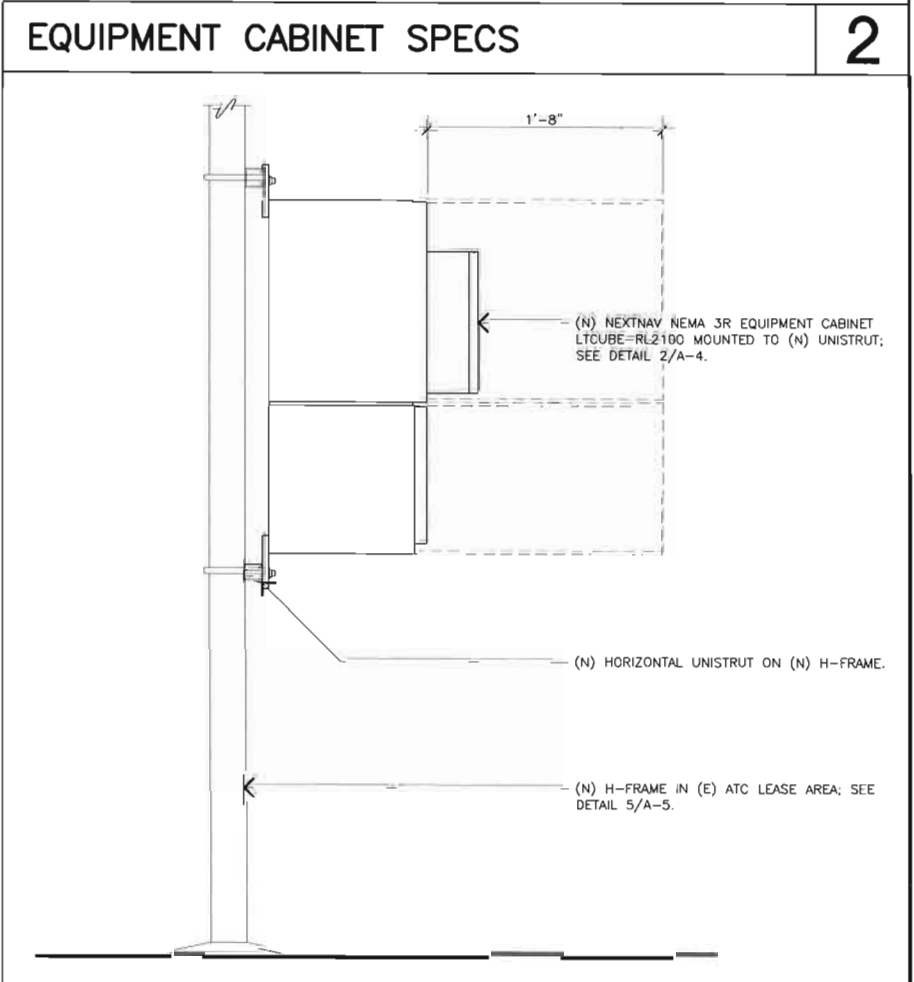


NOT USED

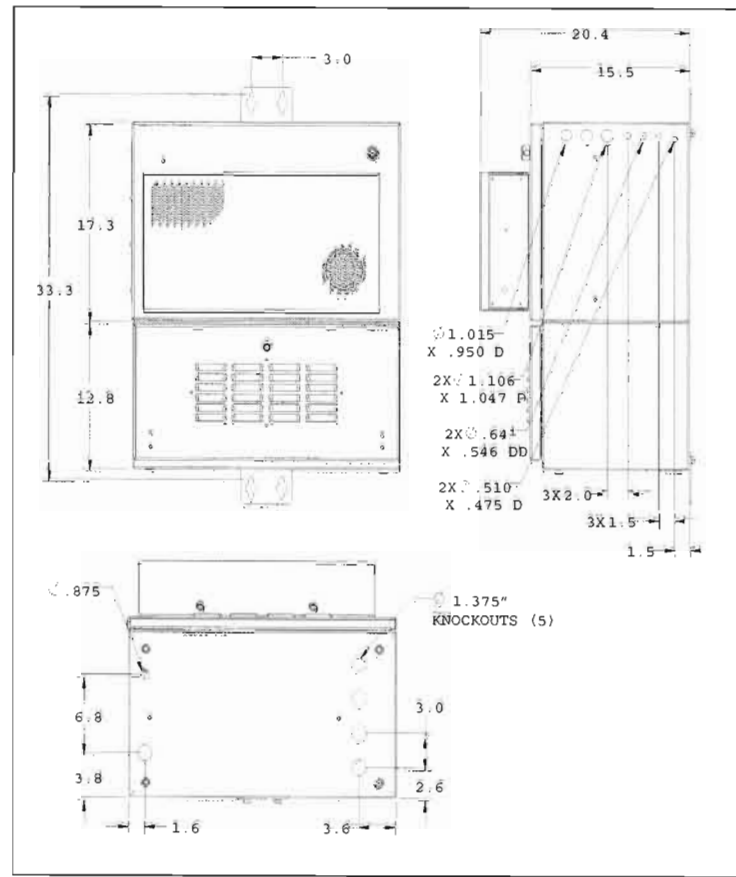
4 OMNI ANTENNA MOUNT



3 EQUIPMENT CABINET MOUNTING



EQUIPMENT CABINET SPECS



2

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EXP 2/25/13

STATE OF CALIFORNIA

PREPARED FOR

NextNav, LLC

7926 JONES BRANCH DRIVE, SUITE 500  
MCLEAN, VIRGINIA 22102

APPROVALS

R.F.:

ZONING

CONSTRUCTION

SITE ACQUISITION

OWNER APPROVAL

PROJECT NAME

CENTERVILLE

PROJECT NUMBER

CA-SFO-0068

5275 CENTRAL AVENUE  
FREMONT, CALIFORNIA 94536

DRAWING DATES

09/28/11 90% PRELIM CD'S (P1-B1)  
10/07/11 100% FINAL CD'S (P1-B2)  
10/14/11 CLIENT COMMENTS (P1-B3)  
01/27/12 CLIENT COMMENTS (P1-B4)

SHEET TITLE

DETAILS

A-4





EXISTING ELECTRICAL PANEL

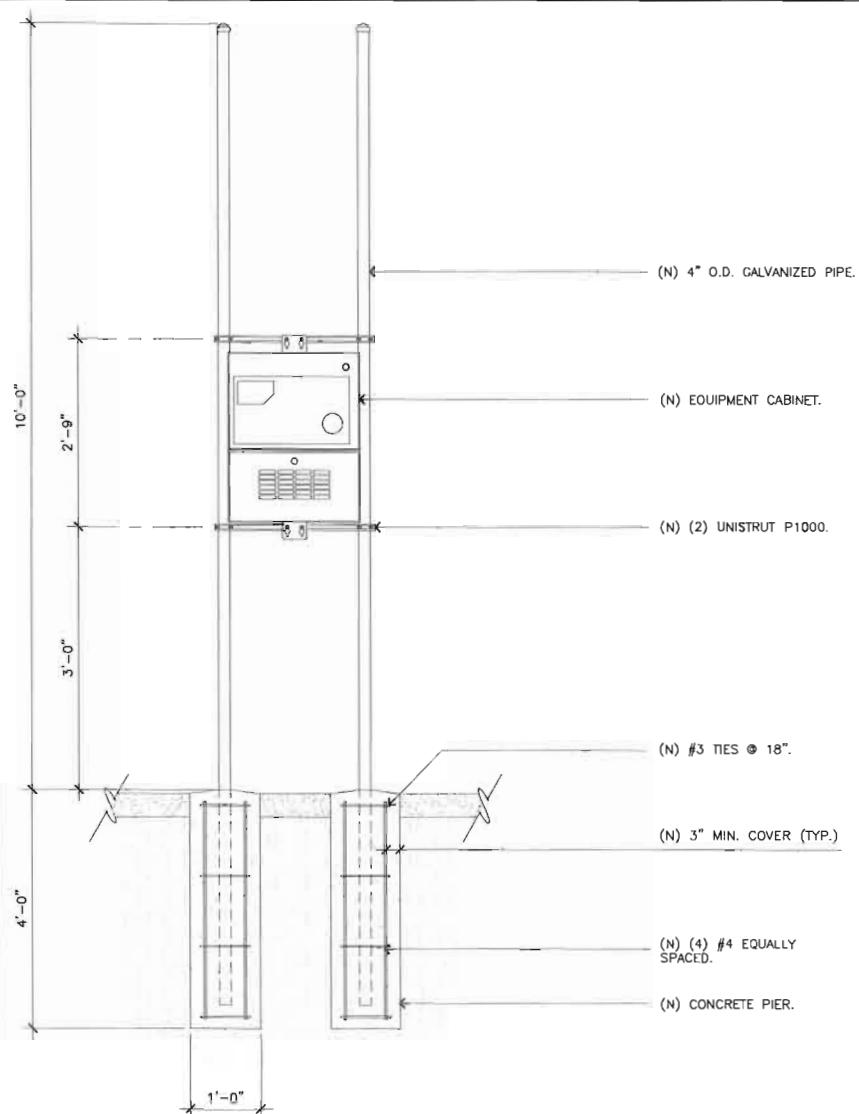
6

NOT USED

4

NOT USED

2

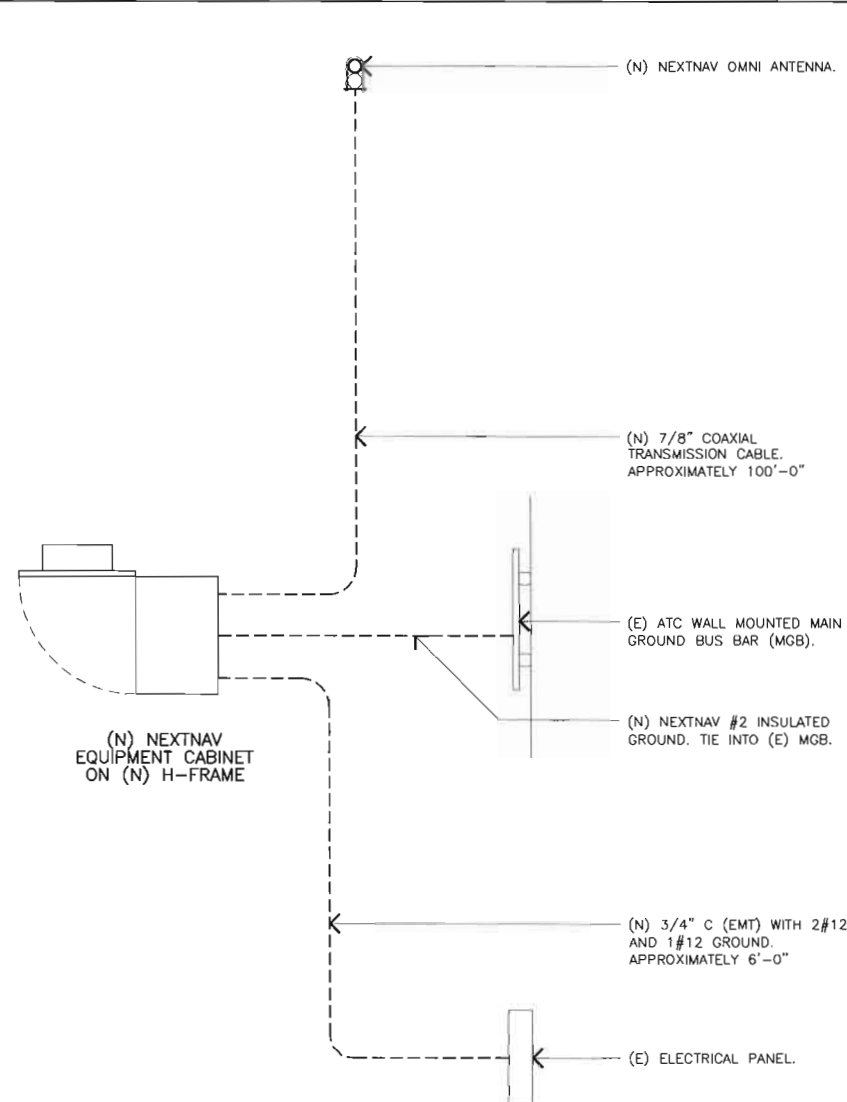


- GENERAL NOTES
1. ABOVE GROUND CONDUIT TO BE SCH. 80 PVC OR METAL.
  2. UNDERGROUND CONDUIT TO BE SCH. 40 PVC.

"H" FRAME DETAIL

5

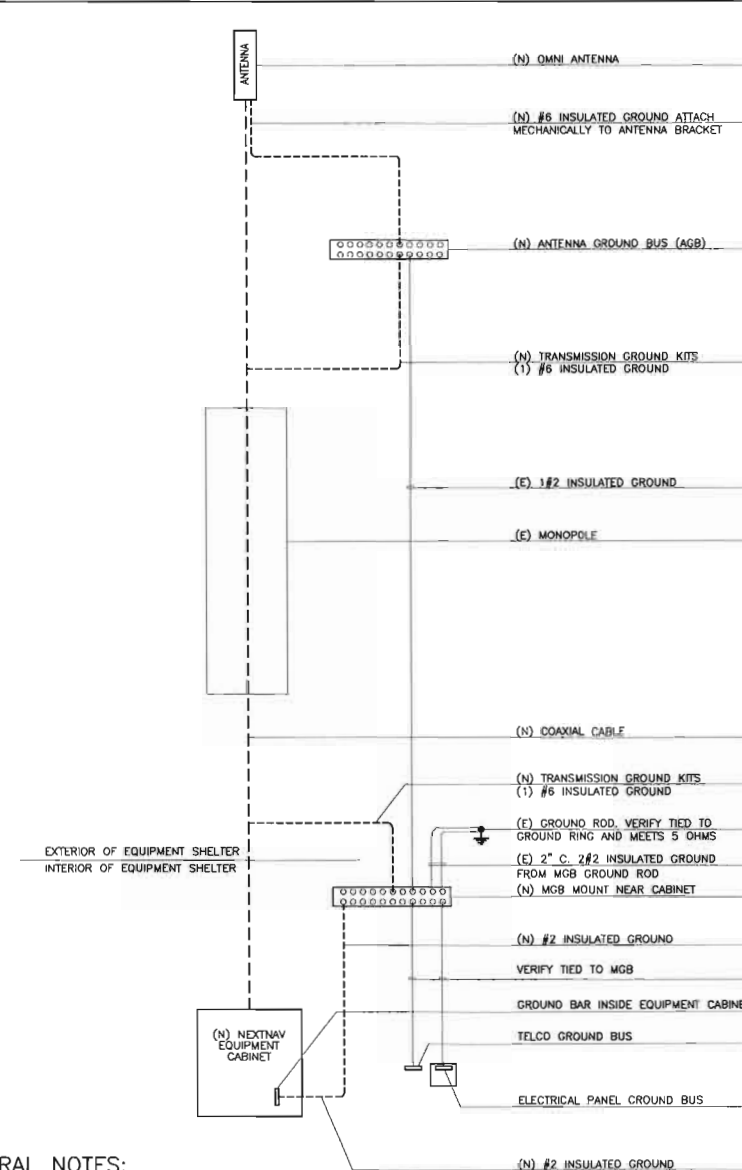
SINGLE LINE DIAGRAM



- NOTE
- SINGLE LINE DIAGRAM FOR ILLUSTRATION PURPOSE;  
SEE PLANS FOR ACTUAL EQUIPMENT LOCATION.

3

GROUNDING SYSTEM SCHEMATIC



- GENERAL NOTES:
1. SPLICE GROUND CONNECTIONS.
  2. FOLLOW COAXIAL CABLE MANUFACTURERS RECOMMENDATIONS (TYPICAL).
  3. ALL INSULATED GROUND WIRES TO BE STRANDED, AWG WIRE UNLESS NOTED OTHERWISE.

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SHEET TITLE

DETAILS

A-5